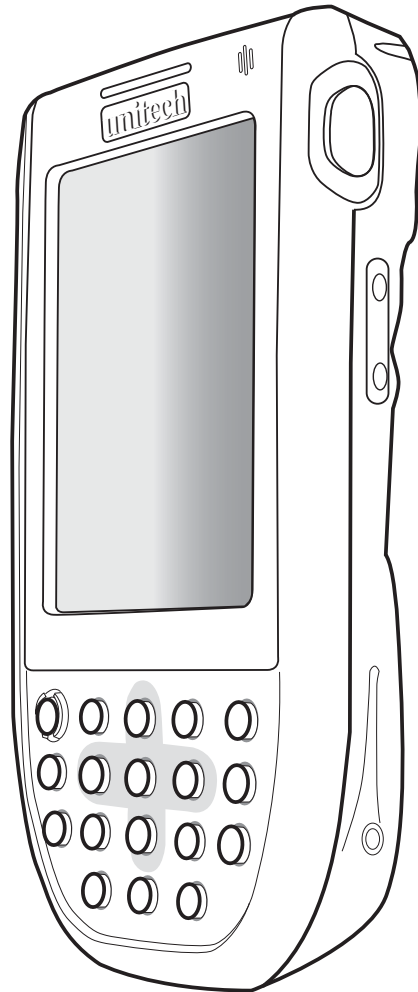


PA600 Rugged Enterprise PDA



User's Manual

Rev. D 400597G

About This Manual

This manual explains how to install, operate and maintain the PA600 PDA Barcode Scanner.

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Regulatory Compliance Statements

FCC Statement

This is a FCC Part 15 Class B product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.

Canadian Compliance Statement

This Class B Digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte les exigences du Règlement sur le matériel brouilleur du Canada.

European Conformity Statement

Declaration of Conformity with Regard to the R&TTE 1999/5/EC and EMC 89/336/EEC directives.

Laser Information

The unitech PA600 series is certified in the U.S. to conform to the requirements of DHHS/CDRH 21CFR Subchapter J and to the requirements of IEC 825-1. Class II and Class 2 products are not considered to be hazardous. The PA600 series contains internally a Visible Laser Diode (VLD) whose emissions do not exceed the maximum limits as set forth in the above regulations. The scanner is designed so that there is no human access to harmful laser light during normal operation, user maintenance or during prescribed service operations.

The laser safety warning label required by the DHHS/IEC for the PA600 series's optional laser scanner module is located on the memory compartment cover, on the back of the unit.

CAUTION! Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser light. Use of optical instruments with the scanner will increase eye hazard. Optical instruments include binoculars, microscopes, and magnifying glasses. This does not include eye glasses worn by the user.

Battery Notices

This unit is equipped with a battery pack and backup battery. Both batteries will discharge after an extended period of not being used.

When both batteries are discharged, recharge the unit for 16 hours in order to fully charge the main battery and backup battery. There are two ways to recharge PA600:

1. Plug the USB charging cable to the PA600 and plug the 5V/2A AC-DC adapter to the power jack of the USB charging cable.
2. Place the PA600 into the docking station and plug the 5V/2A AC-DC adapter to the power jack of the docking station.

For more details, refer to page 8, Charging the Battery.

If the main battery is removed, the backup battery ensures the data on SDRAM is safe for up to 6 hours. To prevent data loss, do not leave the PA600 uncharged with the main battery removed for an extended period.

Battery charge notice

It is important to consider the environment temperature whenever you are charging the Lithium-Ion battery pack. The process is most efficient at normal room temperature or slightly cooler. It is essential that you charge batteries within the stated range of -5°C to 50°C. Charging batteries outside of the specified range could damage the batteries and shorten their charging life cycle.

Storage and safety notice

Although charged Lithium-Ion batteries may be left unused for several months, their capacity may be depleted due to build up of internal resistance. If this happens they will require recharging prior to use. Lithium-Ion batteries may be stored at temperatures between -20°C to 60°C, however they may be depleted more rapidly at the high end of this range. It is recommended to store batteries within normal room temperature.



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Getting Started

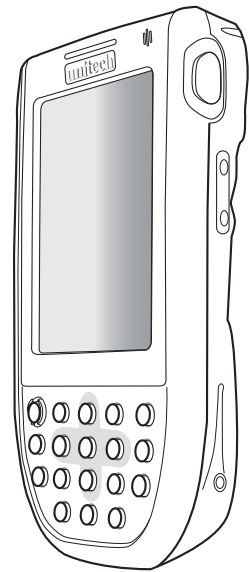
Introducing the PA600

Thank you for purchasing the PA600 PDA Barcode Scanner.

Your PA600 was designed for users who need a compact and durable PDA for data collection and real time transactions.

The PA600 is a rugged, compact and lightweight palm-size computer using the Windows CE 5.0 operating system, and incorporating an integral bar code scanning laser device, color LCD with touchscreen, keypad, IrDA interface, and wireless communication capability. It provides users with a standard Windows-based environment for customizing and operating the device.

To reduce TCO, the PA600 is sealed to meet IP54 standards and has undergone multiple drop tests to prevent downtime.



Features

Powerful system

- Microsoft Windows CE 5.0 operating system
- Intel PXA270 processor with speed of up to 520 MHz

System memory

- 128 MB SDRAM
- 320 MB Flash ROM

Display

- 3.5-inch QVGA LCD touch-sensitive screen
- 320 x 240 resolution

Barcode scanner

- Built-in Bar Code Scan Engine
- Built-in vibrator for scanning indication

Communication

- USB Host & Client
- VOIP 900MHz/1800MHz
- 802.11b/g for power saving
- Bluetooth version 1.2 Class 2 (supports Bluetooth Printer, Bluetooth Modem, Bluetooth ActiveSync)

Audio

- Voice recording and playback
- MIC
- Speaker
- Headset Connector
- Receiver

Wireless connectivity

- 802.11b/g with diversity antenna
- Bluetooth wireless technology

Expansion slot

- Accommodates Secure Digital (SD) memory cards and can serve as a SDIO port.

Battery life

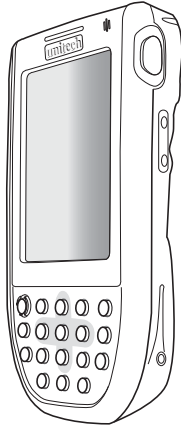
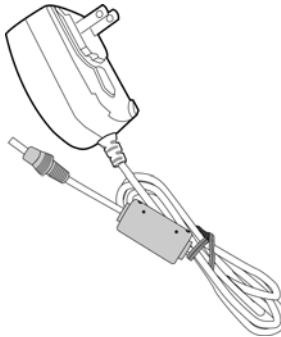
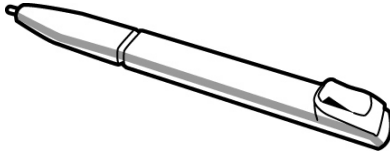
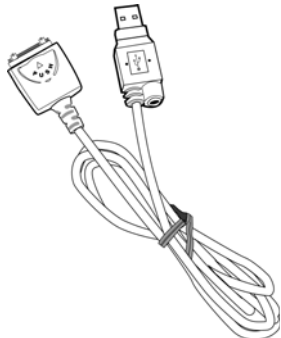
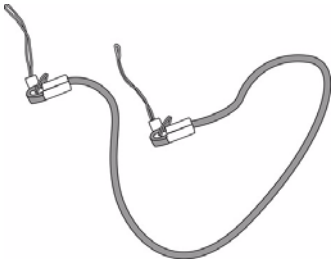
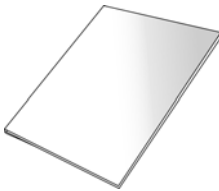
- Batch usage with 50% backlight: 12 hours
- RF enabled usage with 50% backlight: 6 hours
- Charging time: 3.5 hours
- Embedded backup battery cell

User-friendly interface

- Quick launch hot keys for enabling backlight, calibration, software keyboard, and other device management tasks
- Trigger keys for barcode scanning

Package Contents

After opening the box, ensure the following accessories for the PA600 are present:

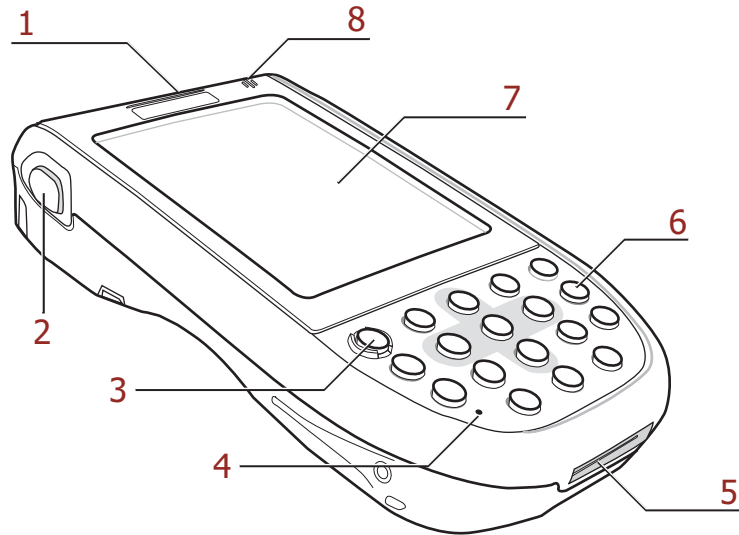
			
PA600 Terminal		AC Adapter with universal plugs	
			
Battery Pack	Stylus		
			
USB Charging Cables	Elastic Stylus String	CD-ROM	Quick Reference Guide

If anything is missing or appear damaged in any way, contact your dealer.

A Tour of the PA600

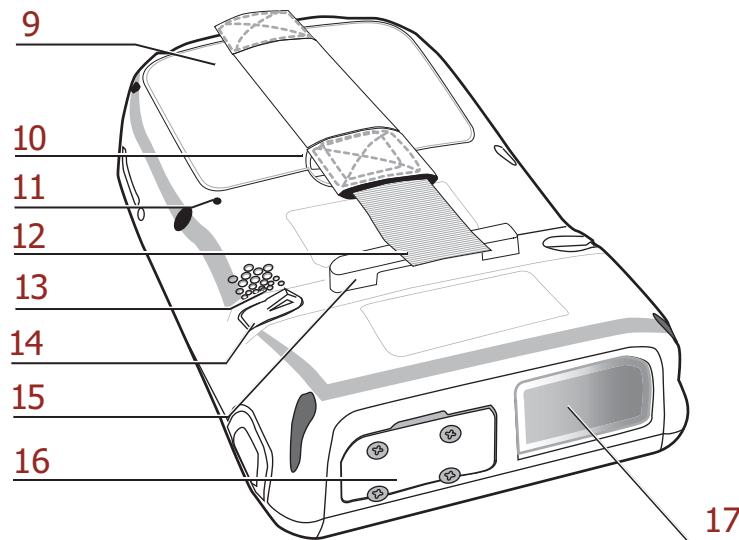
The following sections describe the main components and features of the PA600.

Front Left View



No.	Component	Description
1.	Status indicator	Indicates the battery charging and barcode scanning status. Green - Battery is fully charged or barcode scanning process is completed without error. Red - Battery is charging, barcode scanner is fired / activated.
2.	Left scanner trigger button	Press to activate the barcode laser scanner.
3.	Power button	If the device is off, press this button to turn it on. Alternatively, when the unit is on, this key must be pressed and held down for about three seconds in order to turn the device off.
4.	Microphone	Enables you to record voice audio.
5.	Universal connector	Connects your device to a USB charging/communication cable. This USB cable connects to the computer's USB port and accepts the 5V AC adapter to provide power to the PA600. See page16 for further instructions. The unit can simultaneously recharge and perform an Activesync operation. You can also use it to connect peripheral hardware, such as a docking station, to your device. This port can also support USB and RS232 hosting for devices such as a USB or RS232 scanner, keyboard, or USB memory key.
6.	Keypad	Keypad interface for controlling the PA600. See <i>Keypads and Function Buttons</i> on page 14 for more information.
7.	LCD touch screen	Displays the applications and data stored on your device. It is touch-sensitive and responds to the stylus or finger.
8.	Speaker	Enables you to hear audio from the PA600.

Back View



No.	Component	Description
9.	Battery compartment	Houses the removable and rechargeable 3.7 V, 1950 mAH battery pack
10.	Battery compartment release latch	Opens the battery compartment.
11.	Reset button	Press the end of the stylus into the button to reset your device.
12.	Handstrap	Enables you to securely hold the PA600 while using it.
13.	Speaker	Enables you to hear audio from the PA600.
14.	Stylus	Enables you to interact with the operating system. To use the stylus, remove it from its holder and hold it the same way as you hold a pen or pencil.
15.	Strap holder	Attachment location for holding hand strap, carrying strap, and stylus.
16.	Memory card slot	Accommodates Secure Digital memory cards and can serve as a SDIO port.
17.	Barcode scanner window	Scan barcodes window where the laser pass through.

Getting Started

This section explains how to install and charge the battery, how to check battery status, how to turn on the PA600, and how to calibrate the screen.

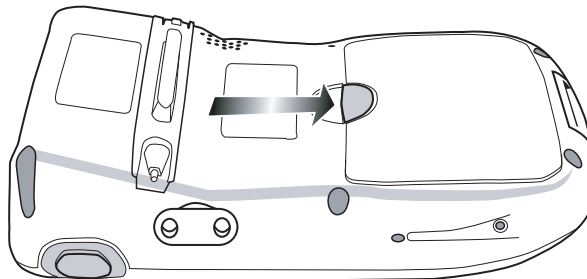
Installing the Battery

WARNING! There is a risk of fire and burns if the battery pack is handled improperly. DO NOT disassemble, crush, puncture, short external contacts, or dispose the battery pack in fire or water. DO NOT attempt to open or service the battery pack. Dispose of used batteries according to local recycling guidelines in your area.

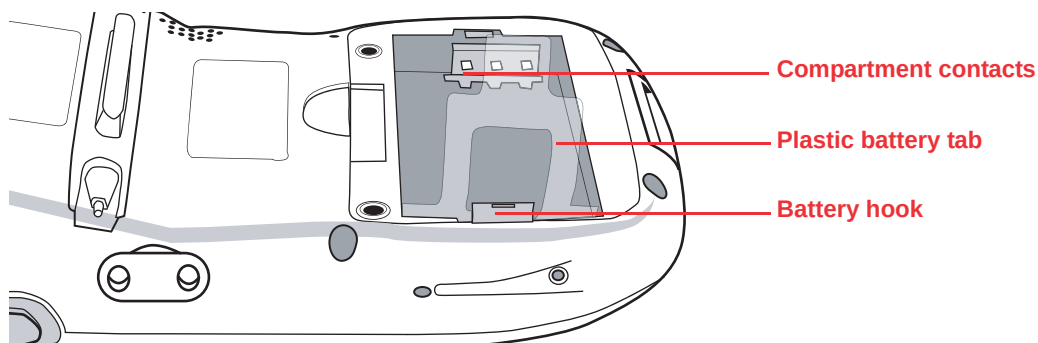
A backup battery cell is embedded into your device to prevent data loss in instances when the removable battery pack is removed or completely discharged. The backup battery will keep the data and system setting for up to 6 hours if the main battery is removed.

NOTE: To enable the internal battery cell to provide backup power supply, charge your device with the main battery pack for at least 16 hours.

1. Open the battery compartment by pushing the latch in the direction of the arrow and lifting up.

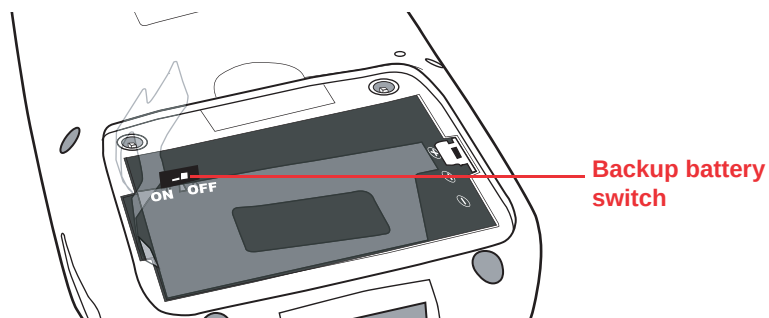


The battery compartment is displayed:

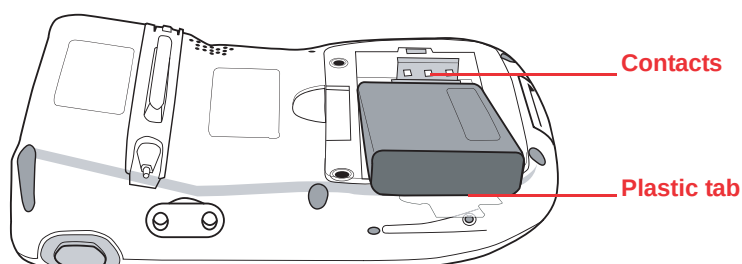


NOTE: The plastic battery tab makes it easy to remove the battery.

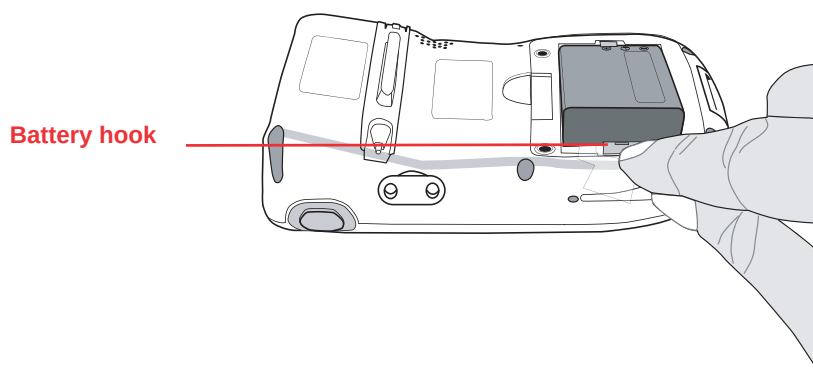
2. Locate the backup battery switch and turn it on.



3. Position the battery pack, making sure the battery contacts are aligned with the contacts in the compartment and the battery is placed on top of the plastic tab, as shown in the following illustration.



4. Slide the battery pack into the battery bay while simultaneously pulling the battery hook until the battery clicks into place.



5. Replace the battery compartment cover.

Charging the Battery

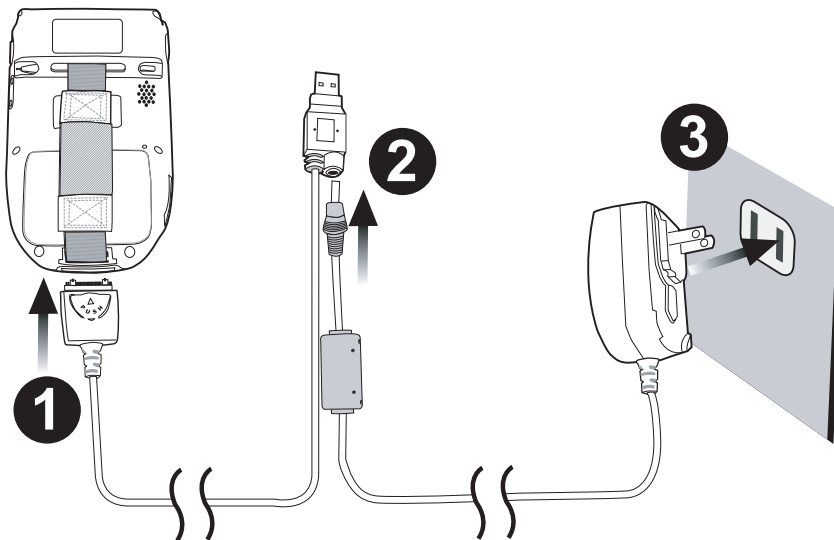
Before using the PA600 for the first time, you need to charge it for about 16 hours. After that, you can charge the PA600 4 hours to recharge the battery to full capacity. Charge the PA600 using the USB charging cable or the docking station.

CAUTION! Operating the PA600 for the first time without the AC adapter, and without fully charging the backup battery may result in loss of data stored in RAM memory. When the main battery is removed, the backup battery retains RAM data in memory for 6 hours, please charge the battery for the period to avoid the data loss in RAM memory.

NOTE: Data you entered may not be properly stored until the built-in backup battery has been adequately charged.

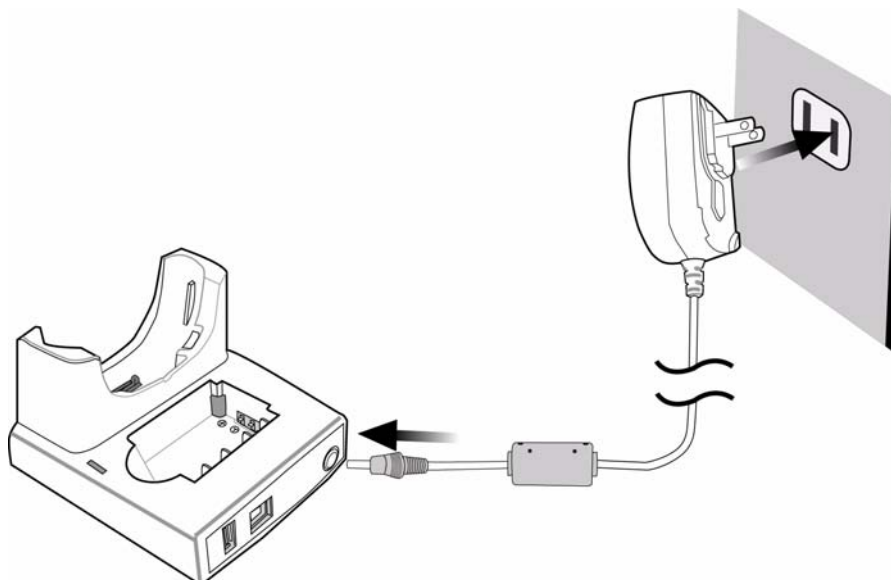
Charging the Battery using the USB Cable

1. Press and hold the connector button on the USB charging cable and connect it to the PA600 (1).
2. Plug the AC adapter cable into the power jack on the USB charging cable (2).
3. Connect the AC adapter into an electrical outlet (3).

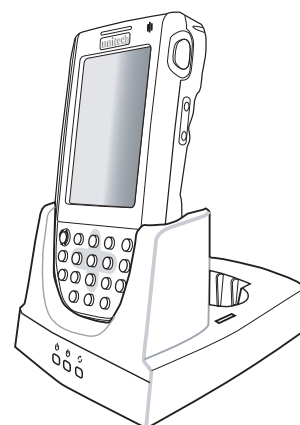


Charging the Battery with the Docking Station

1. Plug the AC adapter cable into the power jack on the docking station, then connect the AC adapter into an electrical outlet.



2. Slide the device into the docking station until it clicks into place.



3. The connection is secure when the bottom edge of the device is aligned with the docking station, and the LED indicator on the device lights up red.

LED Status

	LED	Meaning
PA600	Solid Red	Charging
	Solid Green	Charging complete
Docking Station	 Power LED	Power is on
	 Charging LED:	Charging (For spare battery only)
	 Sync LED	Synchronization is taking place

Checking the Battery Status

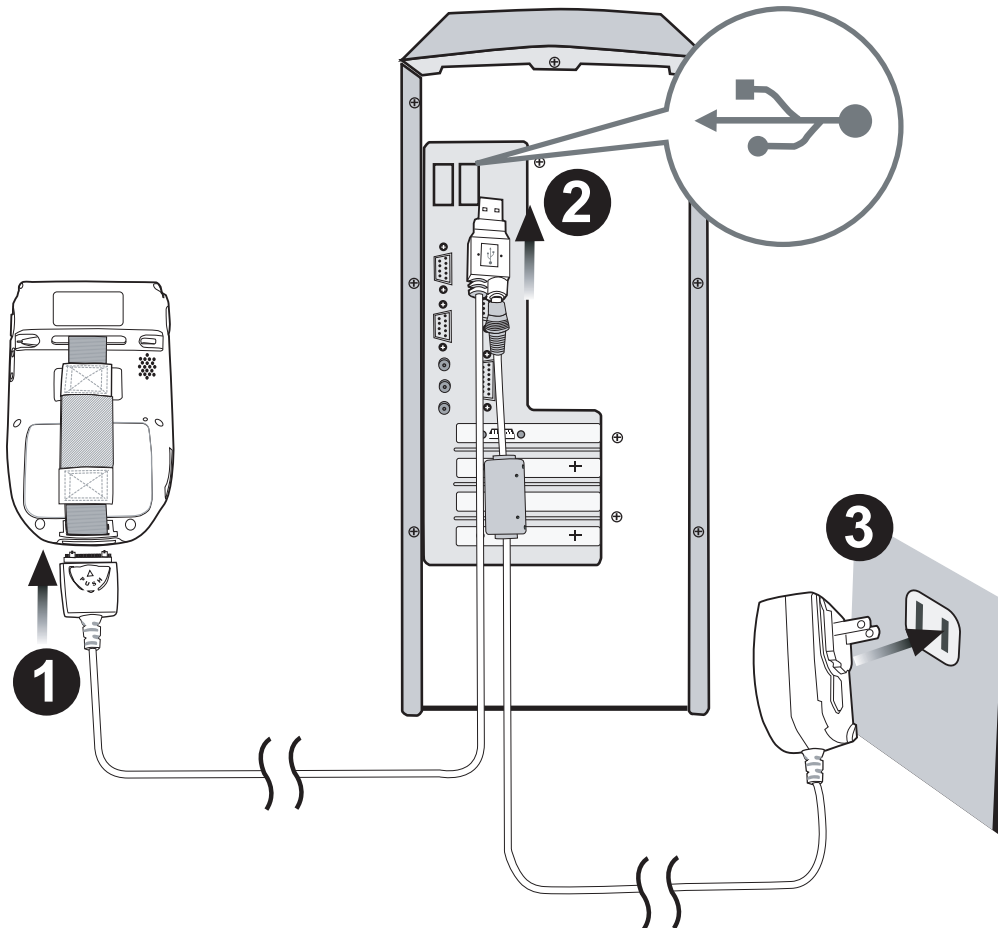
If the battery level becomes low in the course of normal use, a status icon appears on the device screen indicating low or very low battery status. In both cases, perform an Active-Sync operation to back up your data, then recharge your device as soon as possible.

If the battery level reaches a low status, the device will enter sleep mode and cannot be powered up until the battery is charged.

Connecting the PA600 to a PC

Use the USB cable to connect the PA600 to a PC, in order to use with ActiveSync.

1. Press and hold the connector button on the USB charging cable and connect it to the PA600 (1).
2. Plug the USB connector into the USB port on the PC and connect the AC adapter into the USB connector (2).
3. Connect the AC adapter into an electrical outlet (3).



Turning the PA600 on for the First Time

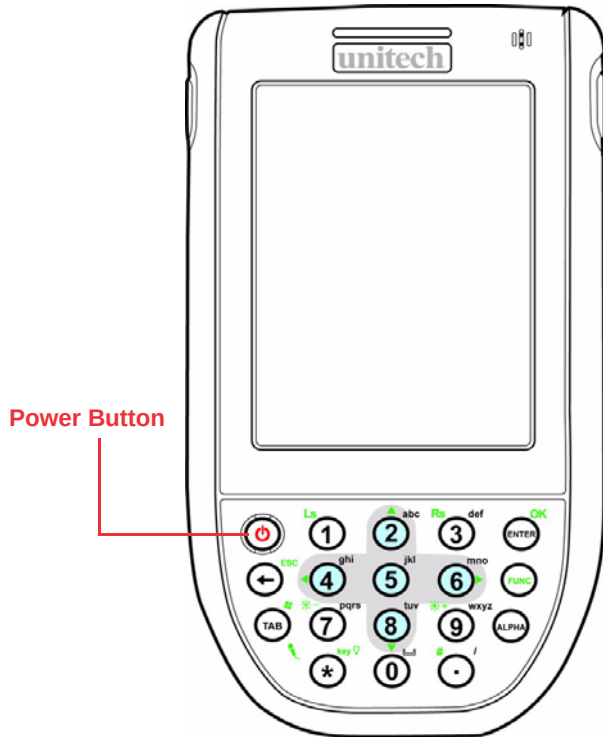
After you have initially charged your device for about 16 hours, the device is ready to be used. You can now start up your device where you'll calibrate the display, learn some basic stylus usage, and set up the system time zone, date and time.

Powering On

1. Turn on your device by pressing the power button on the front panel.

NOTE: The PA600 screen ships with a protective plastic film. You may remove this if desired by peeling from one corner. The screen will be more susceptible to scratching without the film, but will be more readable.

2. The unitech PA600 welcome screen appears for a moment followed by the Windows CE screen.



Calibrating the PA600 Screen

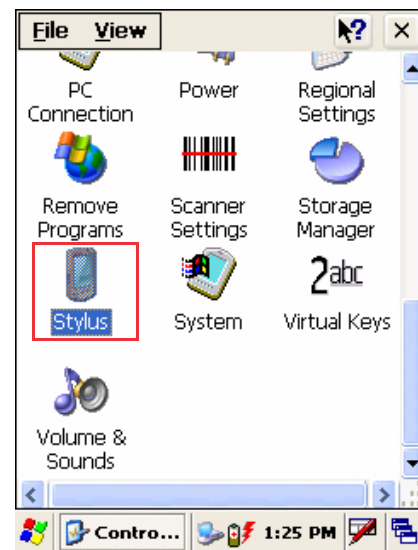
The calibrate screen automatically appears when the unit is powered-on for the first time or after the system is reset.

There are 2 ways to calibrate the screen:

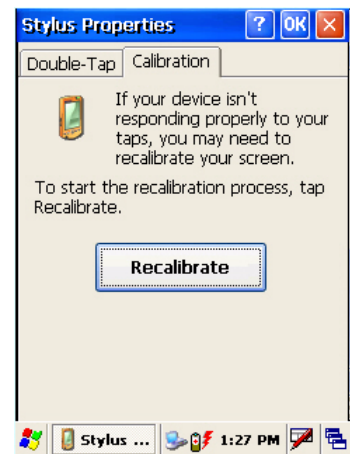
A. Press Func Key + ESC Key.

B.

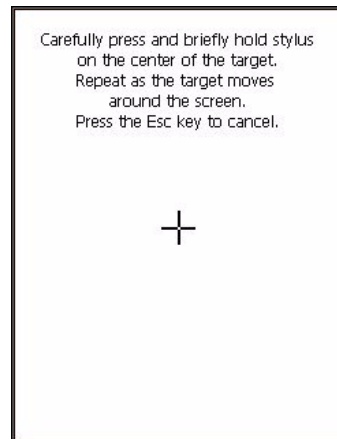
1. Tap **Start** → **Settings**, tap the **Control Panel** tab
2. Tap the **Stylus** icon.



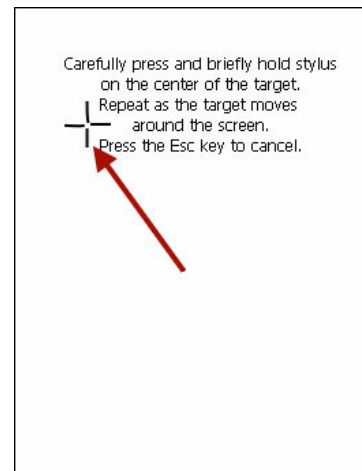
The Stylus Settings window appears.
This window enables you to calibrate the screen.



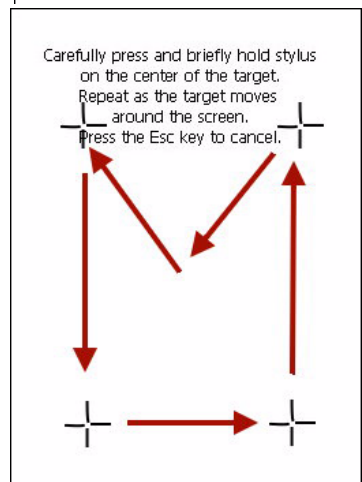
3. Tap **Recalibrate** to calibrate the screen.
The align screen window appears.
4. Tap the cross hair firmly and accurately.



The cross hair moves to the next location.



5. Continue tapping the cross hairs until the screen has been calibrated.



Using the Hardware

Keypads and Function Buttons

The keypad enables you to both enter information and interact with the PDA operating system and also operate secondary functions using the function button. When the green function button is pressed, the green icon functions on the keypad become available.

When the Function button  is pressed, an icon appears on the taskbar:



Function activated icon

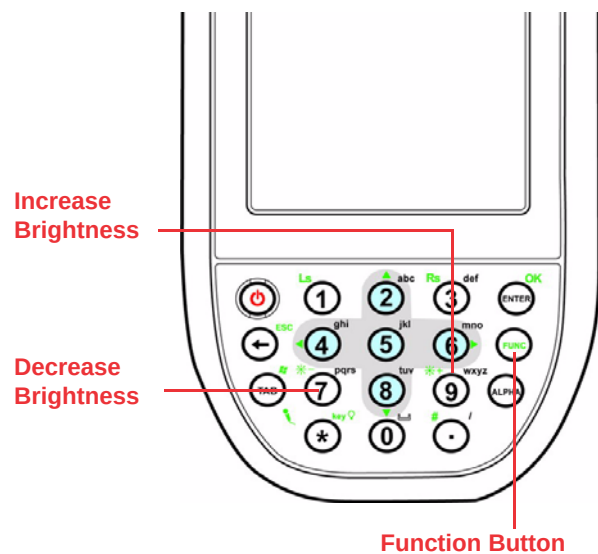
The following table describes the keypad keys.

Key	Main Function	Secondary Function
	Turns the PA600 on and off.	—
	Number 1	
	Alphanumeric 2, a, b, c	Up navigation key
	Alphanumeric 3, d, e, f	

Key	Main Function	Secondary Function
	Enter key	OK
	Back space	Escape key
	Alphanumeric 4, g, h, i	Left navigation key
	Alphanumeric 5, j, k, l	—
	Alphanumeric 6, m, n, o	Right navigation key
	—	Enables/disables secondary function keys
	Tab	Windows key opens Start menu
	Alphanumeric 7, p, q, r, s	Decreases screen brightness
	Alphanumeric 8, t, u, v	Down navigation key
	Alphanumeric 9, w, x, y, z	Increases screen brightness
	Alpha	—
	Asterisk	Illuminates keypad
	Number 0, space	—
	Period	Pound, Slash

Adjusting the Screen Brightness

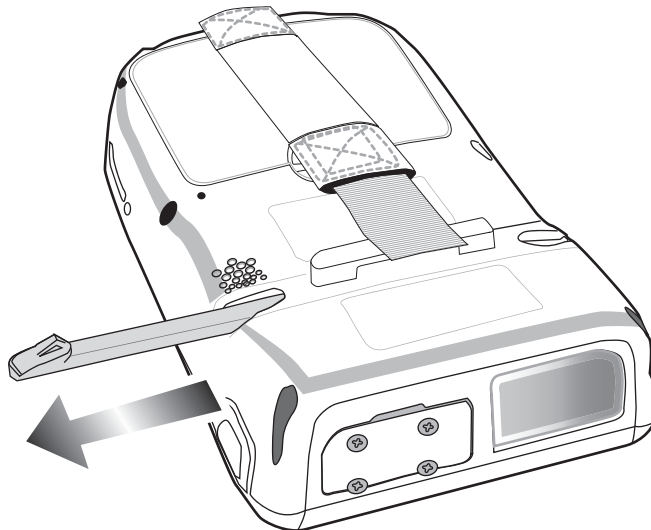
Adjust the screen brightness by pressing the Function button to enable the soft keys and pressing the 7 (decrease brightness) or 9 (increase brightness) buttons.



Using the Stylus

CAUTION! Never use anything other than the PA600 stylus on the screen. Otherwise this could cause a permanent damage.

1. Remove the stylus from its holder.



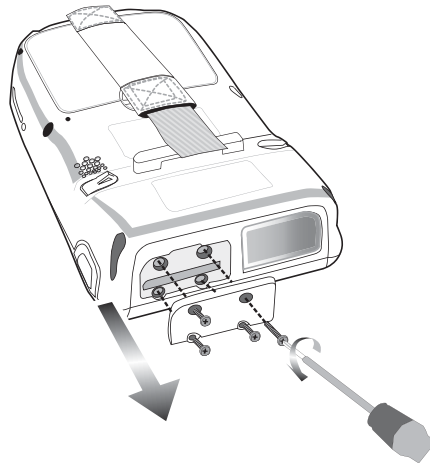
2. Hold the stylus as you hold a pencil.
3. To make a choice from a menu, lightly tap the tip of the stylus on that choice.
4. To write data into a field on a form, use the stylus to print the letters or numbers. Use very light pressure.

Using the SD/MMC memory card

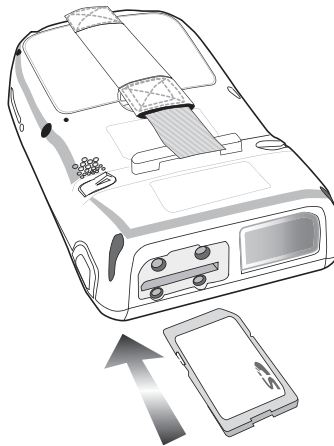
Your device has an expansion slot compatible with a range of SD and MMC storage cards, which are primarily used to back up or transfer files and data. The slot also supports SDIO cards for added connectivity options.

Inserting a Storage Card

1. Remove the four screws from the SD compartment cover and remove the cover.



2. Insert the SD card with the notched corner as shown by the icon on the case.



3. Replace the SD compartment cover and the four compartment screws.

Removing a Storage Card

1. Remove the four screws from the SD compartment cover and remove the cover.
2. Press the card in and release.
The card pops out.
3. Remove the card from the slot.

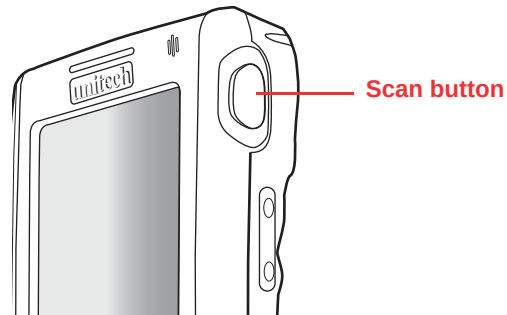
Using the Laser Scanner

The PA600 has an integrated laser scanner which reads all major bar code labels with excellent performance.

NOTE: Scanning software must be enabled in order to operate the scanner. This can be a user-loaded application or a pre-loaded utility such as Scanner Setting or Scan2Key.

Activate the laser scanner by pressing either one of the trigger keys located on the left and right side of the unit.

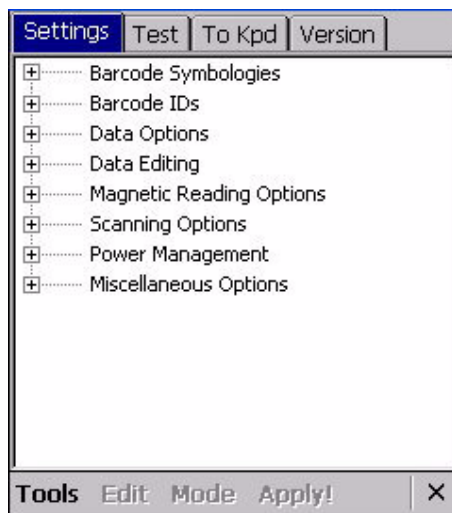
The PA600 has a built-in Scanner Setting utility that allows you to test the device's barcode scan function.



1. To launch Scanner Settings, tap **Start** → **Settings** → **Control Panel** → **Scanner**.

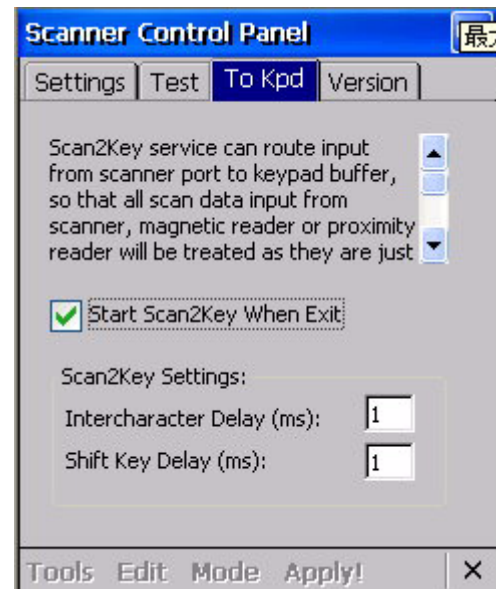
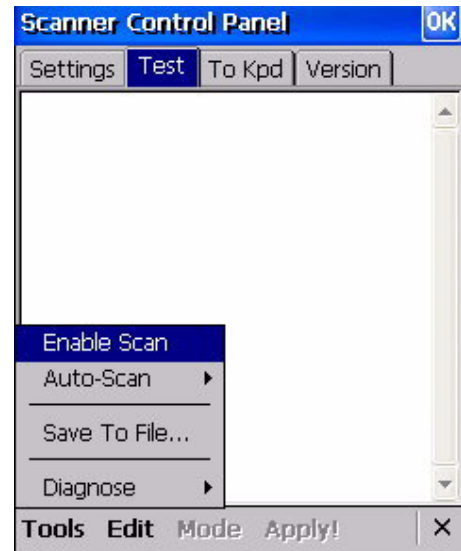


2. The Scanner Control Panel opens.



From here you can configure barcode scanner parameters such as enabling or disabling barcode symbolologies, setting data transmission options, configuring magnetic and proximity reading options, and setting power management options.

3. To test the barcode scanner, tap the Test tab.
4. Tap **Tools**
5. Tap **Enable Scan**
6. To perform auto scan, Tap **Tools** → **Auto Scan** → Start **Auto- Scan**
7. Choose Interval : 3 secs
8. Tap : **Start**
9. Laser scans every 3 seconds and barcode is scanned automatically.
10. Tap **Tools** → **Auto-Scan** → **Stop Auto-Scan**.
11. To enable the scanner outside of the test tab, user must enable **Scan2Key.exe**. This can be done via the **To Kpd** tab.
12. Check the box labeled “**Start Scan2Key When Exit**” and tap **OK** at the top right. The scanner will be enabled and scans will be directed to the keyboard buffer.



Getting Connected

Establishing Device-PC Connection

Installing Microsoft ActiveSync

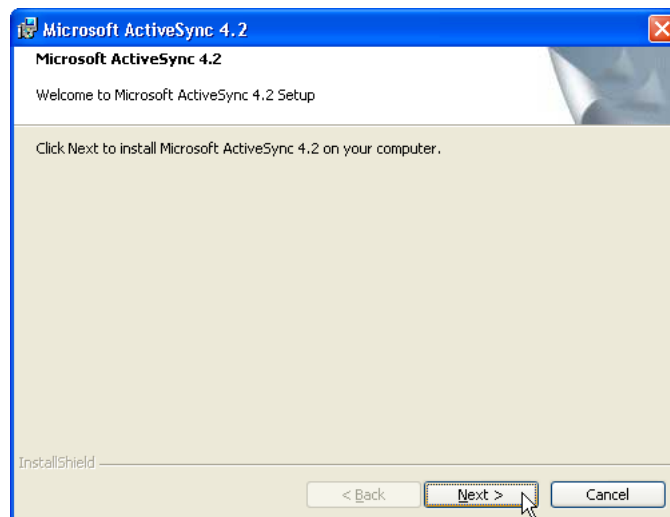
In order to exchange data between your computer and PA600, Microsoft ActiveSync must be installed on your computer. Use the USB charging cable that comes with your device to connect the device to your computer.

NOTE: If you have a previous version of the Microsoft ActiveSync installed in your computer, uninstall it first before installing the latest version of Microsoft ActiveSync.

To install Microsoft ActiveSync on your computer:

1. Close any open programs, including those that run at startup, and disable any virus-scanning software.
2. Download the ActiveSync software from the Microsoft ActiveSync Download page at <http://www.microsoft.com/windowsmobile/downloads/activesync42.msp>.
3. Browse the location of the downloaded file, and double-click it.

The installation wizard begins.

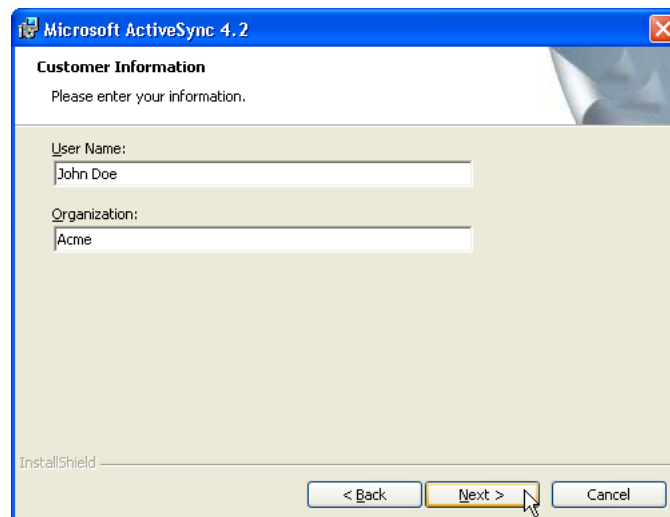


4. Click **Next**.

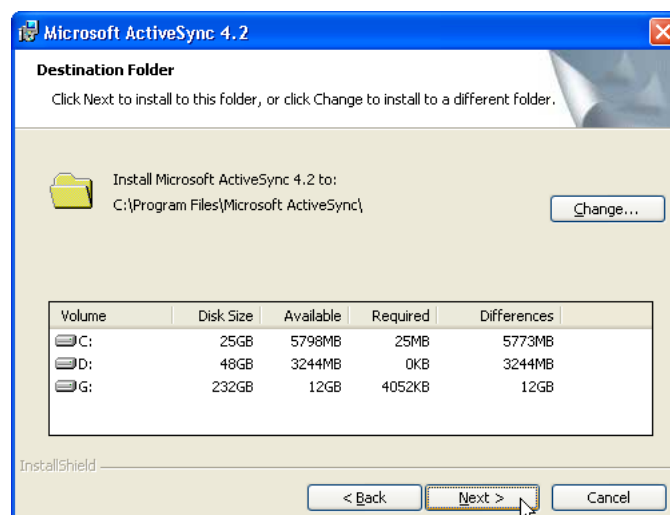
You are prompted to read the End User License Agreement (EULA).

5. Accept the license agreement terms and click **Next**.

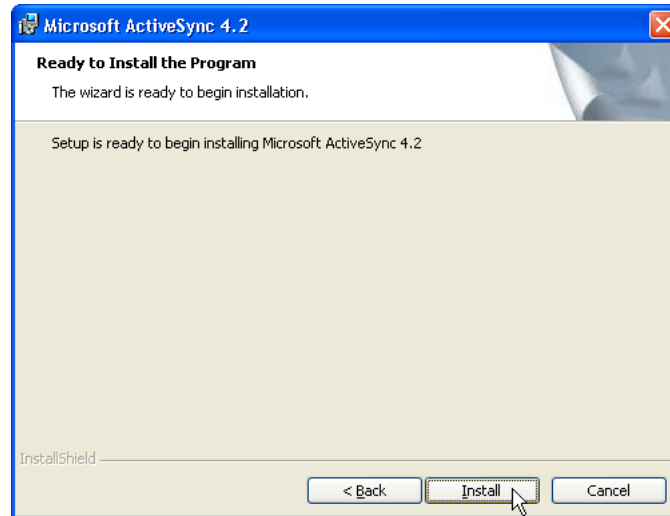
You are prompted for user information.

6. Type the user name and organization and click **Next**.

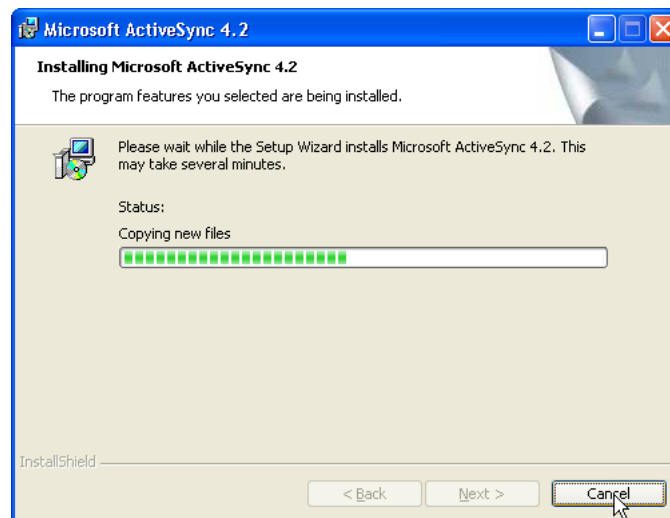
You are prompted for the destination folder.



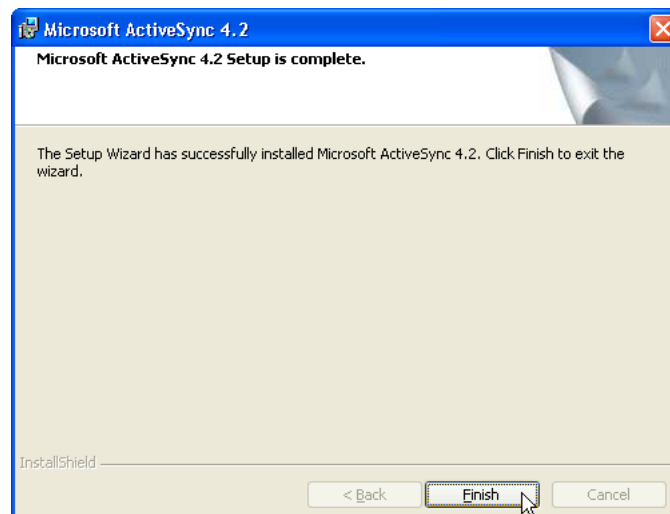
7. Select a drive to install the program and click **Next**.
The installation wizard has gathered the information it needs to install Active-Sync and prompts you to begin the installation.



8. Click **Install**.
The program begin the installation



After the program has finished installing you see the following screen.



9. Click **Finish**.

You may be prompted to restart your computer.

After you have installed ActiveSync and restarted your computer, the ActiveSync icon  appears in your computer's system tray as shown and ActiveSync Connection Wizard starts. For detailed information on how to use ActiveSync on your computer, start ActiveSync then click **Help** → **Microsoft ActiveSync Help**.

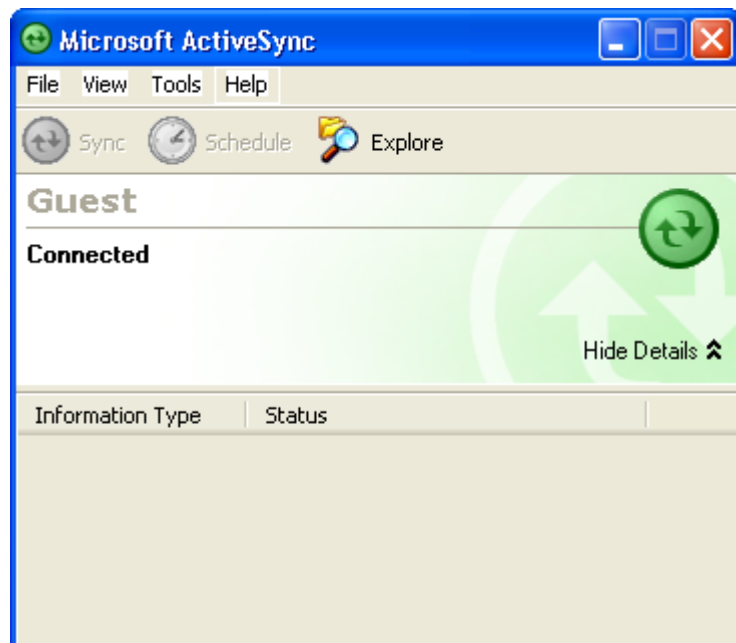
Connecting the Device to Your Computer

1. After ActiveSync has been installed, connect the USB charging cable to the universal connector on the bottom of your device. If necessary, connect an adapter. Refer to *Connecting the PA600 to a PC* on page 10.
2. Plug the other end of the USB charging cable into a USB port on your computer.
3. Turn the device on.
4. ActiveSync starts automatically and configure the USB port to work with the PA600. The New Partnership setup wizard will automatically start.

NOTE: If ActiveSync doesn't start automatically, click **Start** → **Programs** → **Microsoft ActiveSync**.

If a message appears indicating that it is unable to detect a connection, click the **Cancel** button and manually configure the communication settings.

5. Follow the onscreen instructions.
6. When the configuration process is complete, the ActiveSync window appears.



7. Synchronization will be initialized and will take place if you've chosen to synchronize periodically or upon connection.

NOTE: Your computer can create a partnership with multiple PA600s. Also, a PA600 can create a partnership with up to two computers.

Synchronizing with Your Computer

Synchronization takes place according to the options you choose while setting up ActiveSync on your computer. If you accept the default (On Connect) synchronization option in the Microsoft ActiveSync Setup Wizard, you'll be able to simply connect your PA600 to your desktop computer and synchronization will take place.

If you have not enabled the On Connect feature in Active Sync, you can start ActiveSync in either of the following ways:

- On your computer, double-click My Computer → Mobile Devices folder.
- Connect the USB cable between the computer and PA600.

Connection options

You can set remote synchronization with your computer using the following connection options:

- USB connection
- Bluetooth connection
- WiFi connection

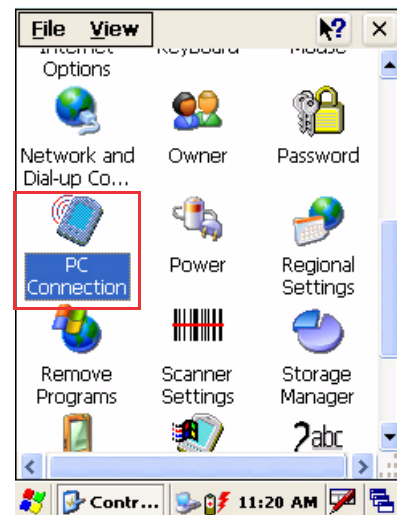
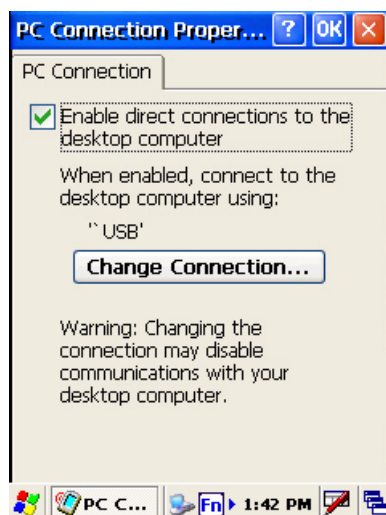
USB Connection

To synchronize with your computer using a USB connection:

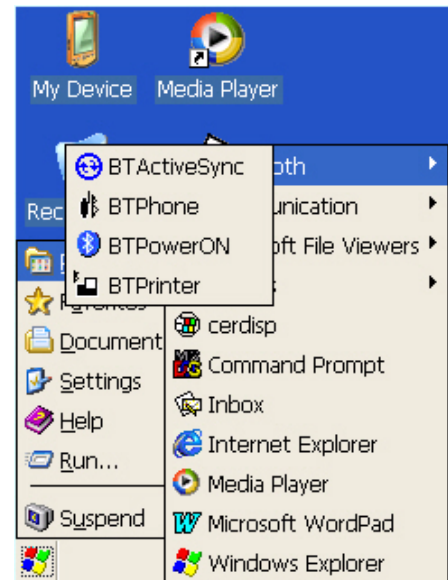
1. Connect your device to your computer using the USB charging cable.
2. Initiate connection by tapping **Start** → **Settings** → **Control Panel** → **PC Connection**.
3. Select **Enable direct connections to the desktop computer** using this check box.
4. Tap **OK**.

Bluetooth Connection

Your device is equipped with Bluetooth wireless technology that you can use to synchronize information with a computer equipped with a Bluetooth adapter or access point. Bluetooth wireless technology allows you to whenever it is with
Follow these instructions.



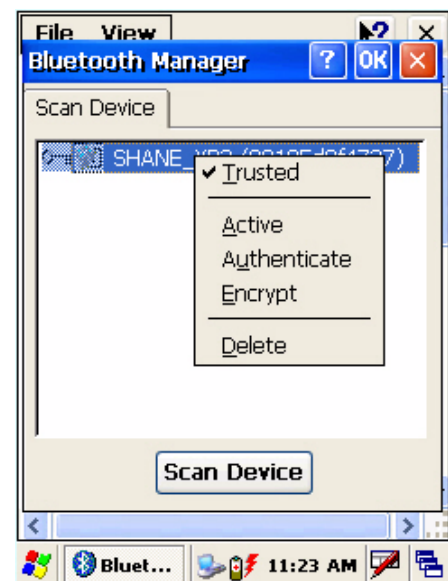
1. Tap **Start** → **Programs** → **Bluetooth** → **BTPowerON** and check **Turn on Bluetooth module**. Tab **OK**.



2. Tap **Start** → **Settings** → **Control Panel** → **Bluetooth Device Properties**.

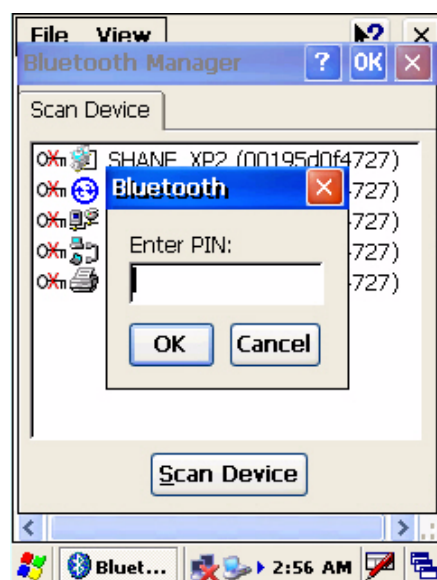


3. Tab **Scan Device**.
4. Select a device from the list and select **Trusted**.



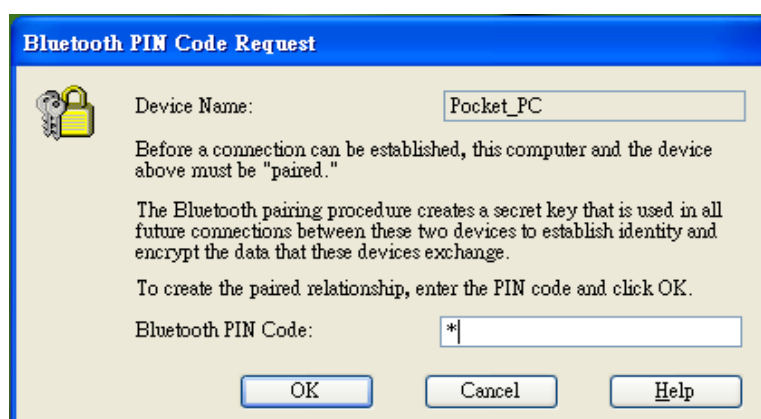
You are prompted for a passkey.

5. Enter the Passkey.

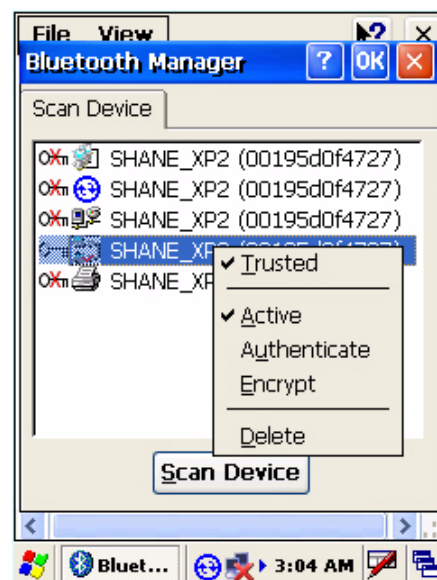


On the PC screen, you are prompted to enter the Bluetooth PIN Code Request.

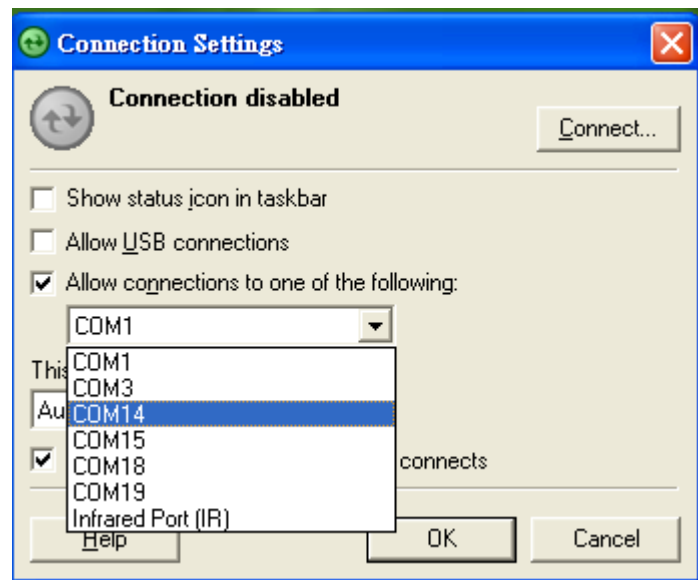
6. Enter the same Bluetooth PIN Code as you entered in step 4.



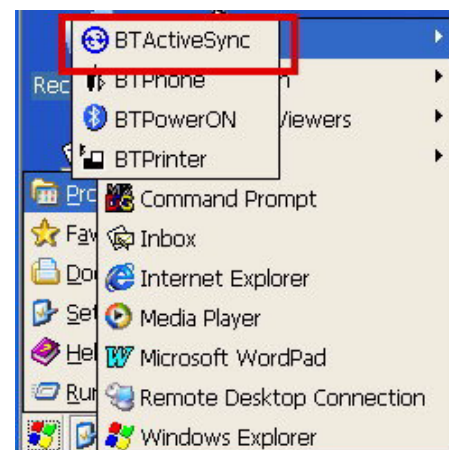
7. On the PA600 select a device from the list and select **Active**.



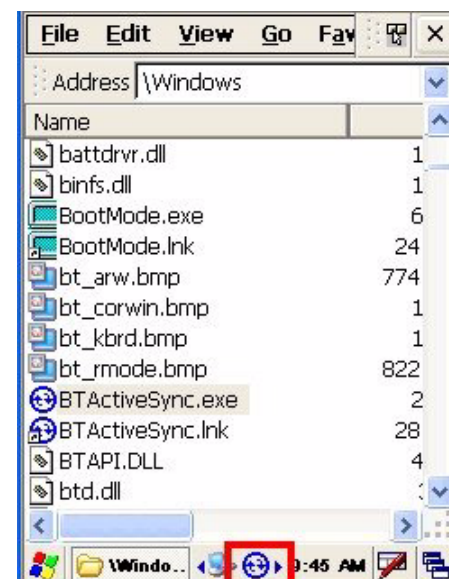
- On your PC, click **Active-Sync** → **Connection Setting** → **Select your BT COM Port** → **OK**



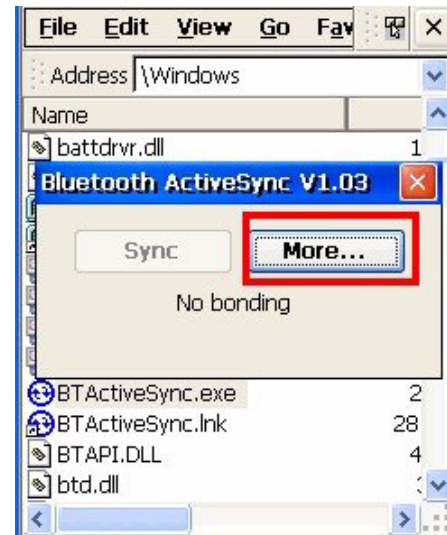
- On the PA600 tap **Start** → **Program** → **Bluetooth** → **BTActiveSync**.



- An icon appears on the taskbar. Double tap the icon.



11. You will see the Activesync window pop up.
Tap **More**.



12. Tap **Inquiry**, Select the bluetooth device you want to sync. Tap **OK**.



13. Tap the BTActiveSync icon again. Tap **Sync**.
14. Activesync begin.



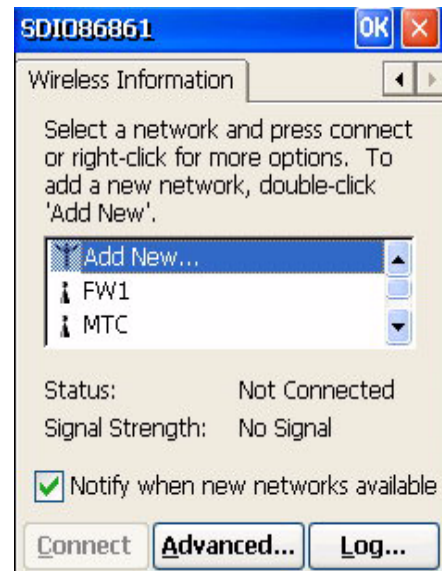
WiFi Connection

Unitech terminals come with built-in RF facility. This chapter guides the user on how to setup the RF setting.

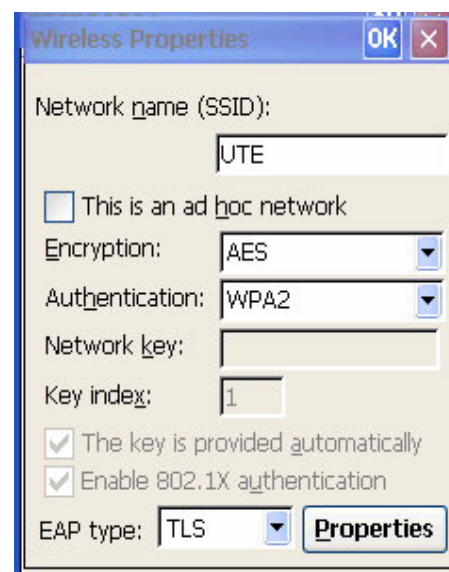
1. Double tap the **RF icon** on the taskbar.



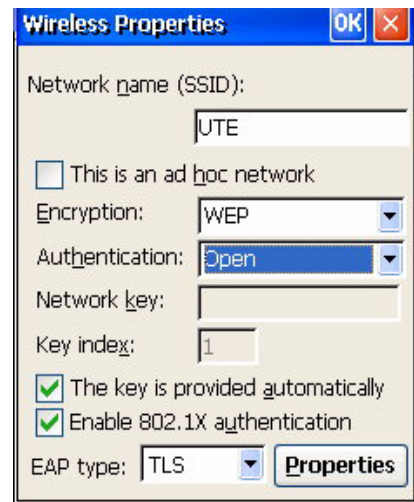
2. Under “Wireless Information” tab, double tap “Add New”.



3. Enter the SSID.

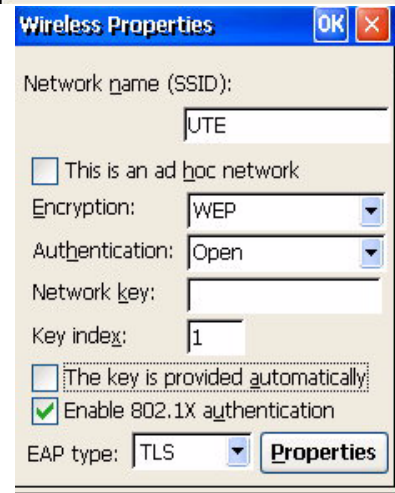


4. For Authentication, select **“Open”**.

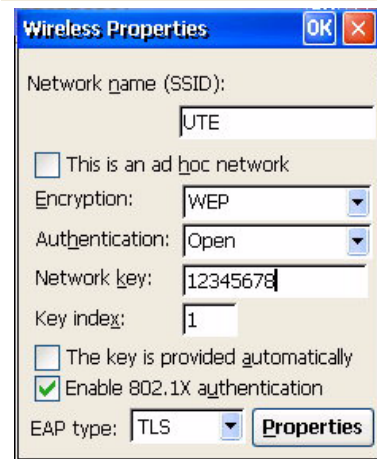


5. For Encryption, Select **“WEP”**.

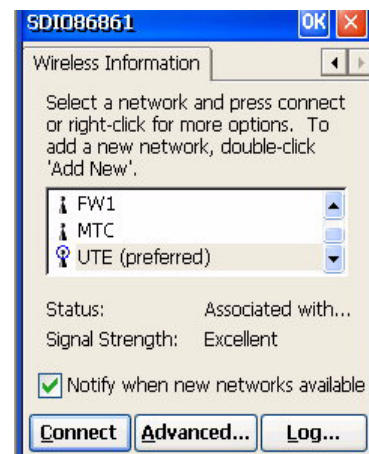
6. Uncheck **“The key is provided automatically”**.



7. Enter the Network Key.



8. Tap OK. Start to search for RF signal and the RF is connected.



Synchronizing Information

All files created on the device are stored in My Document/PA600 My Document folder (if the designated device name is PA600). You can view files by double-clicking the PA600 My Documents icon on your computer.

If you have enabled file synchronization, your PA600 files are automatically synchronized in the My Documents folder on your computer, unless a different name was chosen for PA600.

Synchronization Options

Synchronization options can be modified, including when you synchronize and what gets synchronized. In the Mobile Device window, click **Tools** → **Sync Options**.

For each type of information, the synchronization process can be hastened by limiting the amount of data to be synchronized. To do this, select a service and click the Settings button. After enabling a service, you must close and reopen the ActiveSync.

Using ActiveSync to Exchange Files

You can use ActiveSync to exchange information from your device to your computer and vice versa. Changes you made to the information on one location will not affect the information on the other one. If you want to automatically update information on both your device and computer, synchronize the information instead.

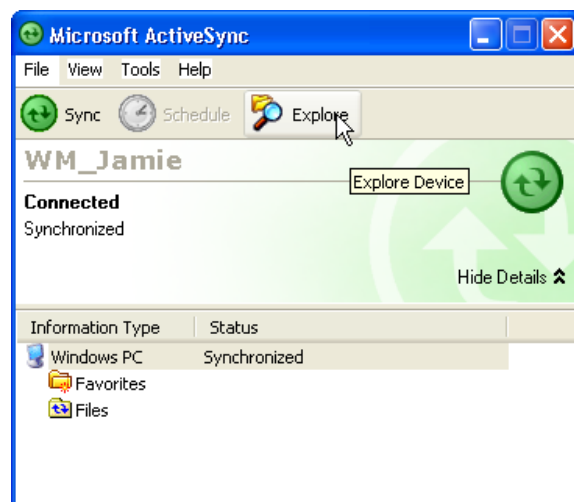
You can copy two types of information to your device: files and Pocket Access Windows CE Store information.

The procedure below only applies to copying files. Refer to the ActiveSync Help on your computer for instructions on how to copy Pocket Access Windows CE Store information.

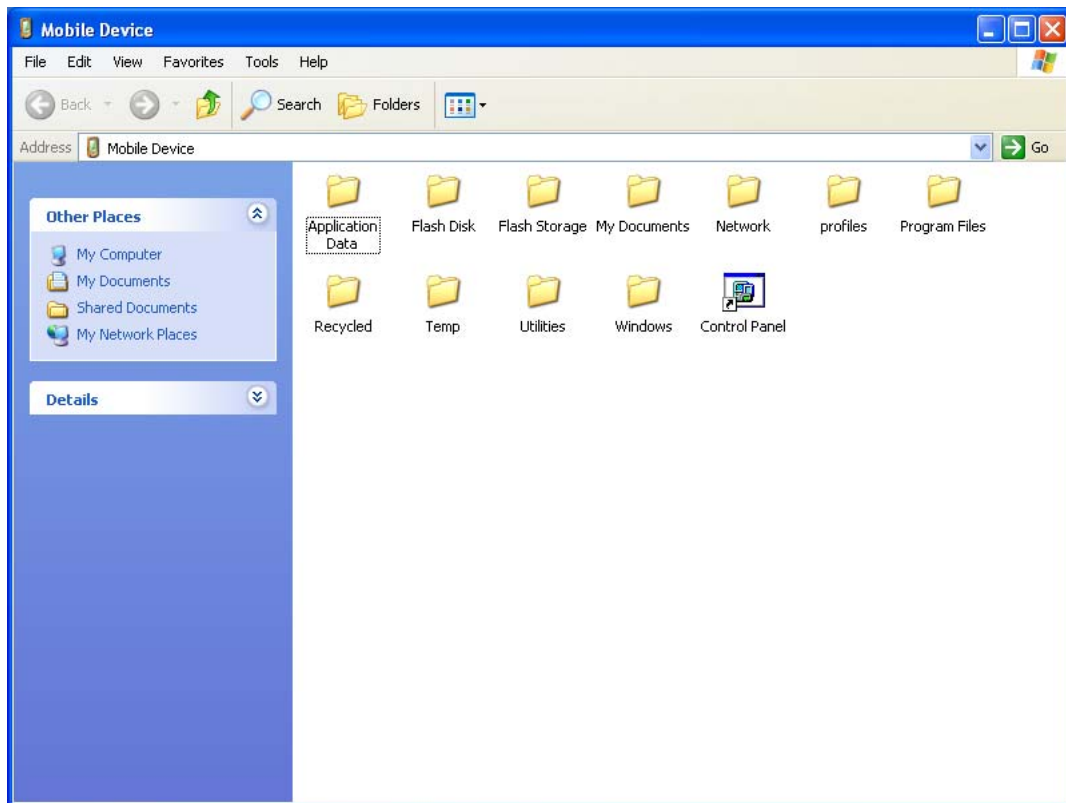
NOTE: Files created on your computer may need to be converted by ActiveSync so that they can be viewed and edited on your device, and vice versa.

To copy files:

1. Connect your device to your computer.
2. In ActiveSync on your computer, click **Explore**.



Windows Explorer opens the Mobile Device window for your device.



3. Locate the file that you want to copy on your device or computer.
4. Do either one of the following:
 - To copy the file to your device, right-click the file and click **Copy**. Place the cursor in the desired folder for your device, right-click, then click **Paste**.
 - To copy the file to your computer, right-click the file and click **Copy**. Place the cursor in the desired folder for your computer, right click, then click **Paste**.

Chapter 4

Barcode Scanner Programs

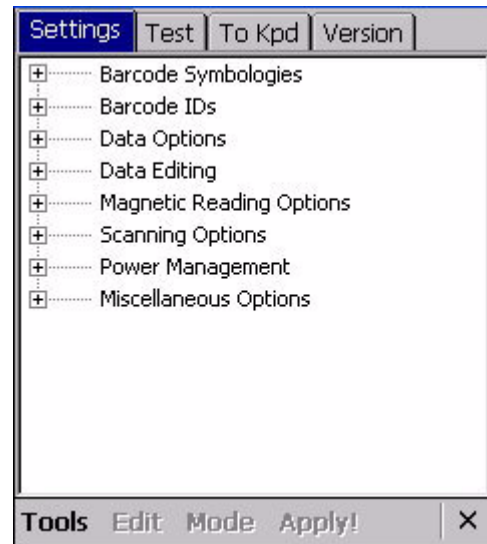
Scan2Key

The Scan2Key application routes input from a scanner port to a keypad buffer, making all input from the scanner emulate input from the keypad. Using Scan2Key, scanned data will be directed from the scanner port to any waiting(active/focused) text editor such as MS Mobile Word or a text box in an application.

Scanner Setting

When it is necessary for the user to change the default barcode symbology for a different application, the Scanner Control Panel provides the ability to change default symbology, place delimiter characters behind scanned data, and save the settings.

Tap **Start** → **Settings** → **Control Panel** → **Scanner**.



Barcode Symbolologies (1D barcode)

Barcode Symbolology	Enable/Disable	Check Char/Digit verification	Transmit Check Char/digit	Max/Min Length	Transmit Leading Digit	Other
Bookland EAN	YES					
Codabar	YES	YES	YES			Transmit Start/Stop bits, CLSI format, *data length
Code 11	YES		YES			* check digits, *data length
Code 128	YES					*data length
Code 32	YES				YES	Transmit Tailing digit
Code 39	YES	YES				For ASCII, Transmit Start/Stop bits, Function Code, Double label decoding,*data length, *double labels separator
Code 93	YES					*data length
Delta Code	YES	YES	YES			
EAN 128	YES					Transmit Code ID, * Field separator
EAN 13	YES		YES		YES	
EAN 8	YES		YES		YES	* Not suppress first or last digit, *data length
Interleaved 2 of 5	YES	YES	YES			Fixed Length, * Not suppress first or last digit, *data length
Label Code IV&V	YES		YES			
MSI/Plessey	YES		YES			* Check digit double module 10, * data length
Standard 2 of 5	YES	YES	YES			Fixed Length, *Data Length
Telepen	YES					*Standard Character Set
UPC A	YES		YES		YES	
UPC E	YES		YES		YES	Zero Expension,NSC
UPC/EAN Group						Supplement 2, Supplement 5,Insert Space before supplement, must have supplement, *Add-on code try level

Note: *Value Adjustable Scanner Control Pannel V3.0

Barcode Symbolologies (2D barcode)

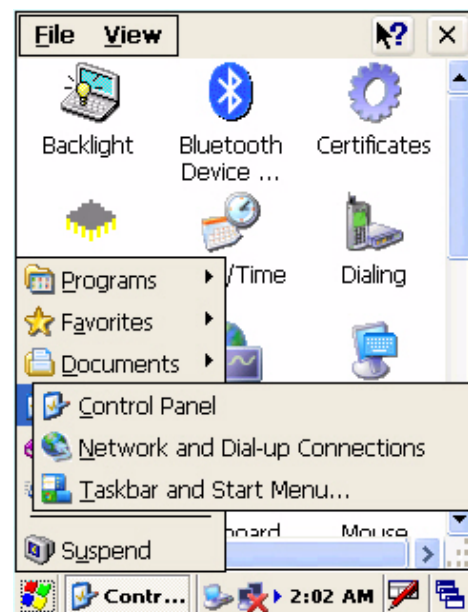
Barcode Symbology	Enable/Disable	Check Char/Digit verification	Transmit Check Char/digit	Max/Min Length	Transmit Leading Digit	Other
Composite	YES			YES		UPC composite, RSS composite, Code 128 composite, Only linear code, EAN 128 EM mode
Data Matrix	YES			YES		Rectangle, Negative
MaxiCode	YES			YES		Mode 0~ 5, Not only primary
PDF-417	YES			YES		
QR Code	YES			YES		Negative

Advanced Settings

Adjusting Settings

This section describes how to adjust the settings of your device to accommodate your work habits.

To access Settings, tap **Start** → **Settings** → **Control Panel**.



The **Control Panel** screen appears.

From here you can adjust such user configurable items as the backlight, auto power off timer, system volume, and processor speed. You can also assign functions to buttons, configure menus, enter owner information, and set up connections.



Checking the Main and Backup Battery Status

This section describes how to view the power level for both the main and backup battery. To minimize power consumption, you can define settings for the auto-off function and the processor's operation speed.

To check the main and backup battery status:

1. Open Power Properties. Do either of the following:
 - If the Plug or Battery icon appears on your device, double-tap the icon to bring the Power Properties screen.



Battery icon

- Tap **Start** → **Settings** → **Control Panel** → **Power**.

NOTE: Press **Fn** key and “8” button

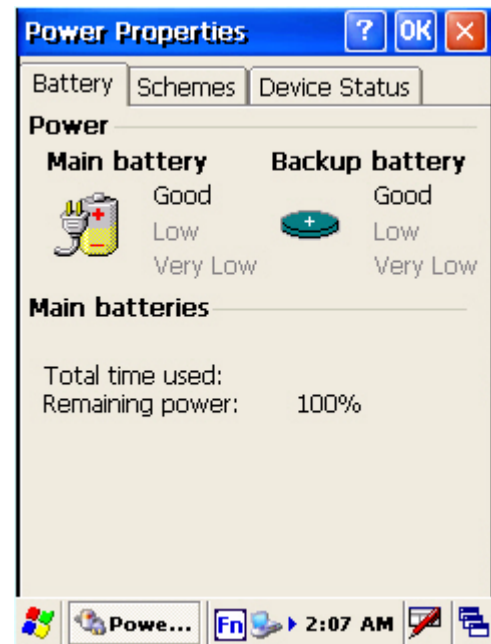


The Power screen appears.

2. The battery menu item displays the status of the main and backup batteries.

On the screen shown here, both batteries are Good.

NOTE: It is necessary to charge the battery when the battery charge is Low or Very Low. If the battery does not accept a charge, contact unitech Technical Support.



Extending Battery Life

You can extend the PA600 battery life by doing either of the following:

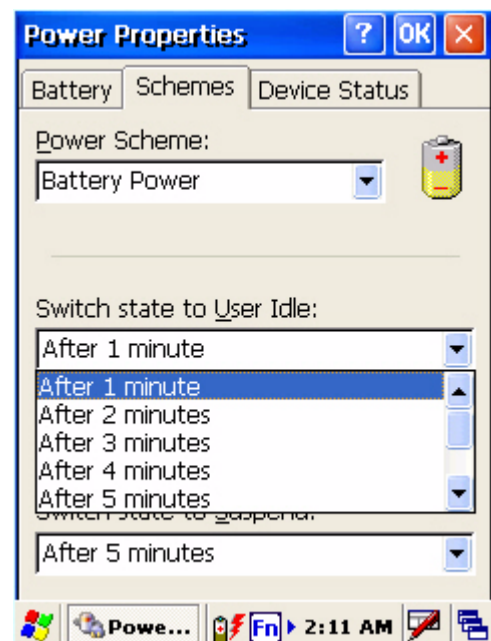
- Change the automatic power settings
- Minimize the use of backlight

Changing the Automatic Power Settings

The PA600 will enter idle mode when there is no task, or all tasks are waiting for input. In default setting, the PA600 automatically turns itself off if it remains idle for 3 minutes and when there is no external charging power connected. Pressing the power button returns the PA600 to the same point at the time of automatic shutdown.

To change the automatic power settings:

1. In the Power screen tap the **Schemes** tag.
2. Tap the **Switch state to User Idle**, **Switch state to System Idle** or **Switch state to Suspend** to select from a list of time periods. The available time periods are 1, 2, 3, 4, 5, 10, 30 minutes and never.
3. This function can also be activated when the PA600 is plugged into the power adapter or placed in its docking station by tapping the **Power Scheme** to select **AC Power** and then tapping the arrow to select from a list of time periods. The available time periods are 1, 2, 5, 10, 15, 30 minutes and never.



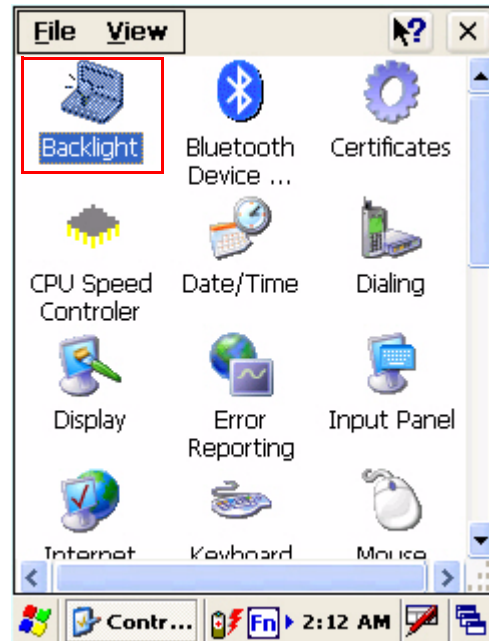
Adjusting Backlight Setting

The power consumption of the LCD backlight is high, turn off the backlight function if it is not necessary.

If a backlight is required, set “automatically turn off the backlight” function.

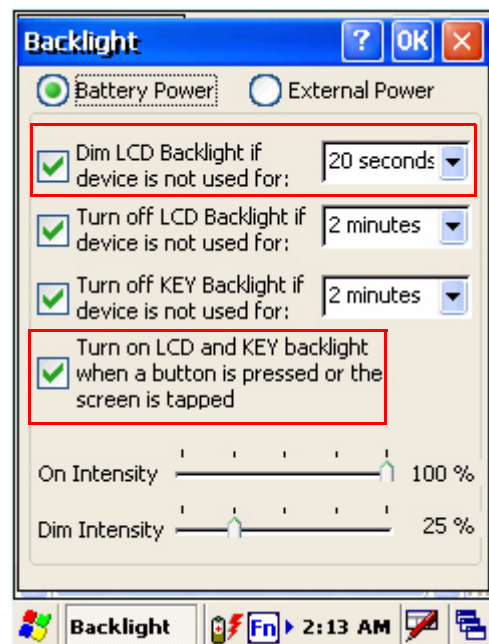
To change backlight settings:

1. Tap **Start** → **Settings** → **Control Panel**.
2. Tap **Backlight**.

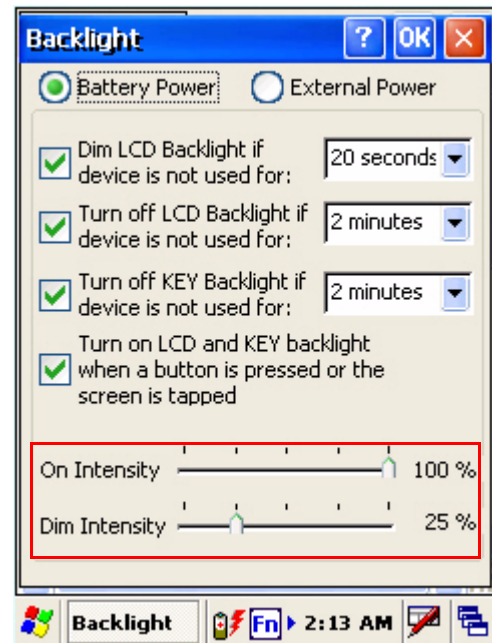


The Backlight screen appears.

3. Do any of the following:
 - In the Battery Power tab, tap the **Dim LCD Backlight if device is not used for:** check box and select the amount of time before the backlight dim while running in battery power mode from the drop-down list.
 - In the External Power tab, tap the **Dim LCD Backlight if device is not used for:** check box and select the amount of time before the backlight dim while running in external power mode from the drop-down list.
 - Tap the **Turn on the LCD and key...** checkbox to activate the backlight when the keypad is pressed or the screen is tapped.



- Set the Intensity, tap and drag the slider to set the backlight ON Intensity and Dim Intensity.



Viewing Flash Memory Files

Flash memory is rewritable location for programs and data files. The benefit of this feature is that files and programs saved in Flash Memory are unaffected by the PA600 power status.

To access the Flash Memory files:

1. On PA600, double tap **My Device**, double tap **Flash Storage** folder.

To transfer files to Device's Flash Memory:

1. Connect the device to your computer. See page 24.
2. In ActiveSync on your computer, click **Explore**.
 - To copy the file to your device, right-click the file and click **Copy**. Place the cursor in the flash storage folder of your device, right-click, then click **Paste**.

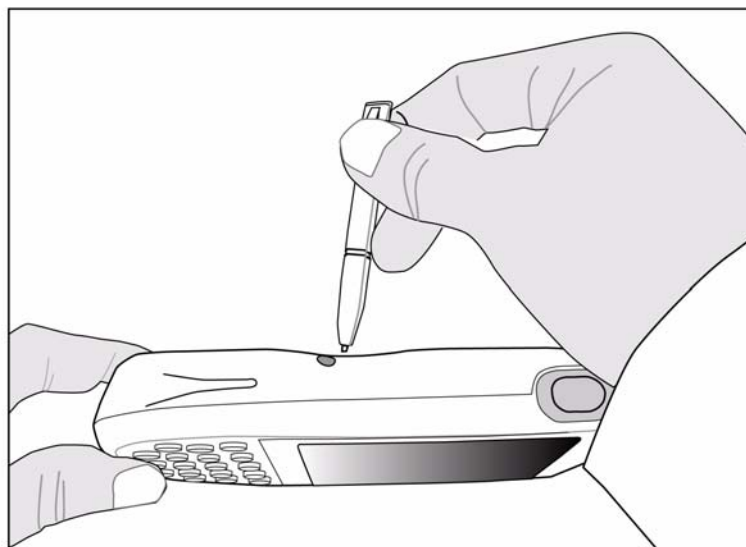
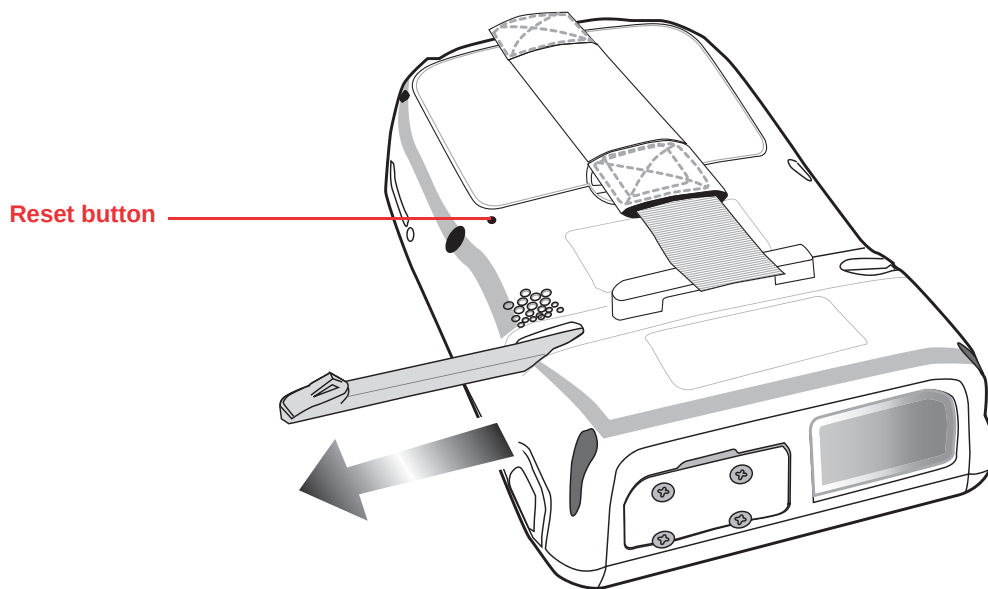
Performing a hardware reset

You may have to perform a reset if the device freezes (i.e., device no longer responds to the buttons or tapping on the screen).

A soft reset allows your device to get a fresh start, similar to rebooting a computer. This will restart your device and adjust memory allocation. All records and entries are retained after a soft reset. Unsaved data in open programs may in some cases be lost.

Performing a Warm Boot

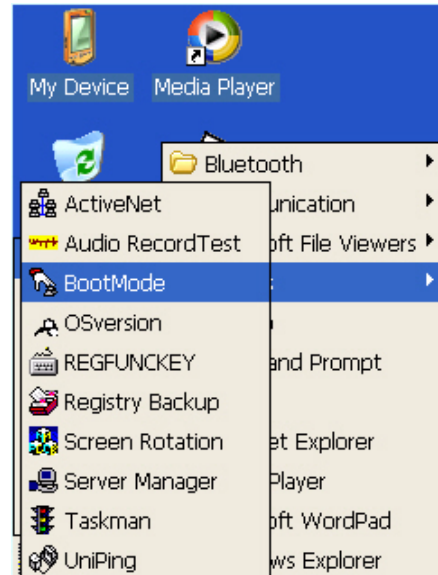
1. Remove the stylus from its holder.
2. Lightly press the tip of the stylus to the reset button located on the rear of the PA600.



Performing a Cold Boot

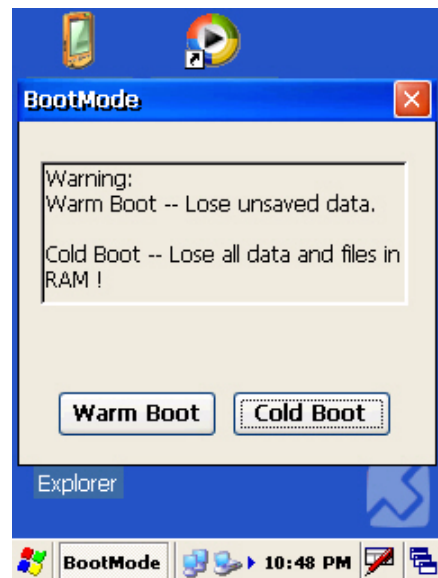
A cold boot will erase all data and all programs you have added and will restore the device to the default factory settings. However, data and application programs stored at the Flash Storage/Flash Disk will not be deleted. Never perform a cold boot unless a warm boot does not correct your problem. When you perform your next ActiveSync operation, you can restore any data that you previously synchronized to your computer or you can restore data that you backed up to a storage card.

1. Tap **Start** → **Programs** → **Utilities** → **Boot Mode**:



The Boot Mode screen appears.

2. Tap **Cold Boot**. The system is reset and you will lose all data including all files in the RAM memory.



NOTE: When you perform a hard reset, the date and time settings will not be retained. Formats, preferences, and other settings are restored to their default factory settings.

System Specification

Processor / Memory	CPU	Intel PXA270 520MHz
	Memory	SDRAM:128MB Flash ROM:320MB
OS	Windows CE 5.0	
Keypad	18-Key, including numeric key, alpha key and function key	
Display	240x320 QVGA, Color Transflective TFT, with Touch Screen & backlight	
Scanner	2D Barcode Scanner	
Indicator	Led, Vibrator	
Communication	USB Host & Client 802.11b/g for power saving Bluetooth 1.2 Bluetooth supports Bluetooth Printer, Bluetooth Modem, Bluetooth ActiveSync	
Audio	MIC Speaker Headset Connector Receiver	
Expansion Slot	SDIO slot	
Power Source	Main	3.7V 1950mAH Li-ion battery pack
	Backup	One rechargeable Ni-MH backup battery
Enclosure	Weight	Under 300g with battery & scan engine
	Dimension	Approximately L149.5 X H26.6 X W85mm
Environmental	Operating temperature	0 C~ 50 C
	Storage temperature	-20 C~ 60 C
	Relative Humidity	5% ~ 95%(non-condensing)
	Drop test to Concrete	4 feet
	Environmental Sealing	IP54
Models		
	802.11b/g + BT	
	BT Only	
Certification	CE, FCC, BSMI, VCCI, RoHS compliant	
Accessories	Desktop Cradle 4-slot Battery Charger Vehicle Quick Charging Cable Holster	
Software	Microsoft Visual Studio 2005 Microsoft Windows CE 5.0 SDK unitech PA600 SDK VOIP (via 3rd party)	